

ABSTRACT OF THE DISCLOSURE

A fixing apparatus used in an image forming apparatus has a fixing member for fixing toner on paper and a pressure member making contact therewith to form in between a nip through which paper is passed. The fixing member has a support member formed of a ferromagnetic material and a heating layer formed adjacent thereto in the form of a thin layer of a non-magnetic, electrically conductive material. When a high-frequency electric current is passed through an exciting coil that is combined with the fixing member, the fixing member produces a high-frequency magnetic field, thereby produces induced eddy currents in the heating layer of the fixing member, thereby produces Joule's heat in the heating layer, and thereby heats the fixing member. A leaking magnetic flux is absorbed by the support member of the ferromagnetic member, and thus has reduced influence on metal parts located around the fixing apparatus.